L15: Entry 13 of 13 File: DWPI May 14, 2004

DERWENT-ACC-NO: 2001-636684
DERWENT-WEEK: 200459

TITLE: Mutant strain, phaffia rhodozyma (kctc-0920b) producing astaxanthin and separation method

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PRIORITY-DATA: 2001KR-0001721 (January 12, 2001)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	KR 431359 B	May 14, 2004		000	C12N001/16
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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: KR2001044210A
BASIC-ABSTRACT:

NOVELTY - Provided is a method for separating mutant strain, Phaffia rhodozyma (KCTC-0920B) which generates astaxanthin in a high yield in a short period of time without being degenerated into a wild type during continuous cultivations.

DETAILED DESCRIPTION - The method for separating mutant strain, Phaffia rhodozyma (KCTC-0920B) comprises the steps of: i) cultivating Phaffia rhodozyma (ATCC-96594) in YM broth and treating the strain with 1-methyl-3-nitro-1-nitrosoguanidine (NTG) to kill 98% of yeast; ii) spreading the remaining yeast on YM medium for cultivation and selecting colonies which are growing faster with red color than the original strain; iii) repeating these processes several times and then, cultivating selected bacteria in YM broth for 4-6 days; and iv) measuring the amount of mycobiont and carotenoid and selecting the strain which produces carotenoid in a high yield.

CHOSEN-DRAWING: Dwg.0/10

TITLE-TERMS: MUTANT STRAIN PRODUCE ASTAXANTHIN SEPARATE METHOD

DERWENT-CLASS: D16

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